

**GOVERNMENT OF INDIA
HEALTH AND FAMILY WELFARE
LOK SABHA**

UNSTARRED QUESTION NO:4769
ANSWERED ON:27.04.2005
PESTICIDES IN BOTTLED DRINKING WATER
Pathak Shri Brajesh

Will the Minister of HEALTH AND FAMILY WELFARE be pleased to state:

- (a) whether the Government has taken notice of presence of pesticides in bottled drinking water of various brands ;
- (b) if so, the details thereof;
- (c) whether the bureau of Indian Standards proposes to change the standards of test in this regard; and
- (d) if so, the details thereof?

Answer

THE MINISTER OF STATE IN THE MINISTRY OF HEALTH & FAMILY WELFARE (SMT. PANABAKA LAKSHMI)

(a) & (b) The Standards for `packaged drinking water` and `packaged mineral water` have been prescribed under PFA Rules, 1955.

The requirements for pesticide residues for `packaged drinking water` has been revised vide notification GSR 554 (E) dated 18.7.2003 (w.e.f. 1.1.2004) as follows:-

(i) Pesticide Residues considered individually:

Not more than 0.0001 mg/litre (The analysis shall be conducted by using internationally established test methods meeting the residue limits specified herein)

(ii) Total Pesticide Residues :

Not more than 0.0005 mg/litre (The analysis shall be conducted by using internationally established test methods meeting the residue limits specified herein).

The requirements for pesticide residues for `packaged mineral water` has been prescribed as follows:-

Pesticide Residues - Below Detectable Limits

(c) & (d) : The Bureau of Indian Standards (BIS), New Delhi has now revised the standards on methods of residue analysis and categorized them in 16 different pesticides groups for `packaged drinking water` and `packaged mineral water`. The list of pesticides to be analysed in these products and the method of analysis prescribed for the same are at Annex I & II. The methods now prescribed by BIS are internationally established test methods meeting the residue limits specified under PFA Rules 1955.

ANNEXURE-I

ANNEX D

(Clause 5)

STANDARDS ON METHODS OF RESIDUE ANALYSIS

S.No	Name of Pesticide	USEPA	AOAC
1.	DDT (o,p & p,p - isomers of DDT,DDE & DDD)	508	990.06
2.	γ- HCH (Lindane)	508	990.06
3.	α, β & δ - HCH	508	990.06
4.	Endosulfan (α,β and Sulphate)	508	990.06
5.	Monocrotophos	8141A	-
6.	Ethion	1657A	-
7.	Chlorpyrifos	525.2,814	-

8.	Phorate (Phorate and its oxygen analogue i.e. phorate sulphoxide and phorate sulphone)	1A 8141A	-
9.	2,4-D	515.1	-
10.	Butachlor	525.2,814	-
11.	Isoproturon	1A 532	-
12.	Alachor	525.2,507	-
13.	Atrazine	525.2,814	-
14.	Methyl Parathion (Methyl Parathion and its oxygen analogue i.e. methyl-paraoxon)	1A 8141A	ISO 10695
15.	Malathion (Malathion and its oxygen analogue i.e. malaaxon)	8141A	
16.	Aldrin and dieldrin	525.2	990.06

Note : Test methods are for guidance and reference for testing laboratory.
In case of two methods, USEPA method shall be the reference method.

ANNEXURE-II

ANNEX N

(Clause 6.3)

STANDARDS ON METHODS OF RESIDUE ANALYSIS (Mineral Water)

S.No	Name of Pesticide	Test Methods	
		USEPA	AOAC
1.	DDT (o,p & p,p - isomers of DDT,DDE & DDD)	508	990.06
2.	γ- HCH (Lindane)	508	990.06
3.	α, β & δ - HCH	508	990.06
4.	Endosulfan (α,β and Sulphate)	508	990.06
5.	Monocrotophos	8141A	-
6.	Ethion	1657A	-
7.	Chlorpyrifos	525.2,814	-
8.	Phorate (Phorate and its oxygen analogue i.e. phorate sulphoxide and phorate sulphone)	1A 8141A	-
9.	2,4-D	515.1	-
10.	Butachlor	525.2,814	-
11.	Isoproturon	1A 532	-
12.	Alachor	525.2,507	-
13.	Atrazine	525.2,814	-
14.	Methyl Parathion (Methyl Parathion and its oxygen analogue i.e. methyl-paraoxon)	1A 8141A	ISO 10695
15.	Malathion (Malathion and its oxygen analogue i.e. malaaxon)	8141A	
16.	Aldrin and dieldrin	525.2	990.06

Note : Test methods are for guidance and reference for testing laboratory.
In case of two methods, USEPA method shall be the reference method.